

Name: _____

Section: _____

Math 125H

Quiz 4

February 7, 2002

Show all work for full credit.

1. (5 points) Find the volume of the solid created by revolving the region bounded by the y -axis, $y = x$, and $y = 1 + x/2$ about the line $x = -1$.

2. (5 points) Find the work done in digging a cylindrical hole with radius 3 feet and depth 10 feet. Suppose dirt weighs 80 lb/ft^3 .